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PREPARED AND DISSEMINATED BY CENTRAL INTELLIGENCE AGENCY			
COUNTRY	Hungary		
SUBJECT	Underground Installation at Hungarian Ministry of Defense	DATE DISTRIBUTED 27 June 1957	25X1
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		SUPPLEMENT TO REPORT #	25X1

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[redacted] sketches of construction features of underground installation at Ministry of Defense in Budapest, Hungary, CONFIDENTIAL 7

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1. [redacted] underground installation under construction within the western yard of the Hungarian Ministry of Defense located at Honved and Marko Streets, Budapest.

2. [redacted] this underground installation will be used as a documents repository.

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3. [redacted]
 - a. The principal overhead cover consists of a slab of steel-reinforced concrete, 1.8 by 12.0 by 16.5 m in dimensions.
 - b. The main slab described above extends 3.5 meters above that portion of the underground installation walls which extends from under the main building into the yard. The western side of the installation is under the main walls of the Ministry of Defense, which is considered sufficient overhead cover. The reinforcement rods are placed in such a manner within the main slab as to provide an immense amount of tensile strength for the slab underside. The rods are placed in the lower third of the slab. A second (inner) overhead cover exists at a separation of 0.6 m from the main overhead slab. The second overhead cover extends merely within the walls of the underground installation. This reinforced concrete slab is 0.4 m thick. It measures, like the inner dimension of the room, 3.7 x 7.5 m.
 - c. The separation of main overhead cover from the inner cover is achieved by wooden forms, which, after the concrete had been poured and set, provides an air gap of 0.6 m between the two covers. The air gap is to provide a cushion against explosive forces passing through the main overhead cover. Should the overhead cover fail, the air gap will absorb some of the shock and might prevent the inner ceiling from failure.

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4. Number, Nature and Location of Entrances:

The underground installation has a single entrance. Actual access to the installation is gained by the main gate along Honved Ut. By walking along the corridor of the Ministry to the middle of the west wing, turning into the hallway leading south toward Marko Utca, following the hallway to a small anteroom along the left (east) side of the hallway, a circular stairway leads down to a landing in front of the iron door of the actual entrance to the underground installation.

5. Tunnel, wall and roof lining and thickness:

All interior surfaces of the underground installation are lined by a smooth plain cement cover. The external surfaces are lined with brick veneer; only the walls and floor of the underground installation are lined by bricks, while the overhead cover is left as poured. The brick lining is 0.25 m thick for the walls and 0.15 m for the bedding of the floor slab of the installation.

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6. Number of levels, size and location of passageways and rooms, size and spacing of supporting columns:

a. Number of levels:

The installation has only one level. The interior of the installation floor is 7.5 meters below the street level.

b. Size and location of passageways:

The underground installation does not contain any passageways.

c. Size and location of rooms:

The whole of the underground installation consists of one room and is located under the Ministry building wall.

d. Size and spacing of supporting columns:

The installation does not have any supporting columns.

7. Type of ventilating system:

Ventilating the underground installation is made possible by sheetmetal ducts. Two ducts, adjacent to each other, (of the following dimensions: approx. 10cm x 60 cm cross section) are used. One duct exhausts the air from the installation and the other feeds fresh air in. The fresh air duct is located about 1 m below the ceiling and the used air duct about 1 m above floor level, along the wall formed by the stairway leading from the landing into the installation. When the air conditioning system is in use, the discharge of fresh air is of such volume that it can be heard.

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8.

The underground installation is provided with one door and no intermediate points of access exist.

The door leading into the underground installation is made of either heavy gauge iron or steel and is about 10 cm thick on the outside. The side toward the landing at the bottom of the circular stairwell is covered with oak panelling.

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8.

Building materials are handled in a conventional manner. Cement and sand are mixed in the yard; trucks bring crushed rock and steel and wood for reinforcement and forms. The structure is cast as one unit at the site of erection. Steel reinforcing rods of walls are welded with rods from both overhead covers. Floor rodding is welded with the wall steel rods.

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The underground installation is located in gravelly soil of the left (eastern) bank of the Danube river. Due to a rare outcropping of clay soil between the Danube river and the building site, no Danube water has seeped into the site. The topography can best be described as a level city environment. The lowest part of the project is located more than 8.0 m below the street level.

10.

The nearest distinguishing landmark to the site is the Margit Hid (Margaret Bridge) across the Danube river. The bridge is located about 150.0 m north of the site, or two blocks north and two blocks west of the site. The bridge is of triangle shape, having a ramp each on the two Danube banks as well as one on Margit Sziget (Margaret Island).

11.

a. Highway:

To the west: Honved Street
To the south: Marko Street

b. Waterways:

To the west: Danube River

12.

While work progressed at the site, the installation was lighted by means of temporary wiring, with power obtained from a fuse box or junction box in the main hallway of the Ministry building. The temporary wiring was led through the doorway, with the doorway never closed while work took place.

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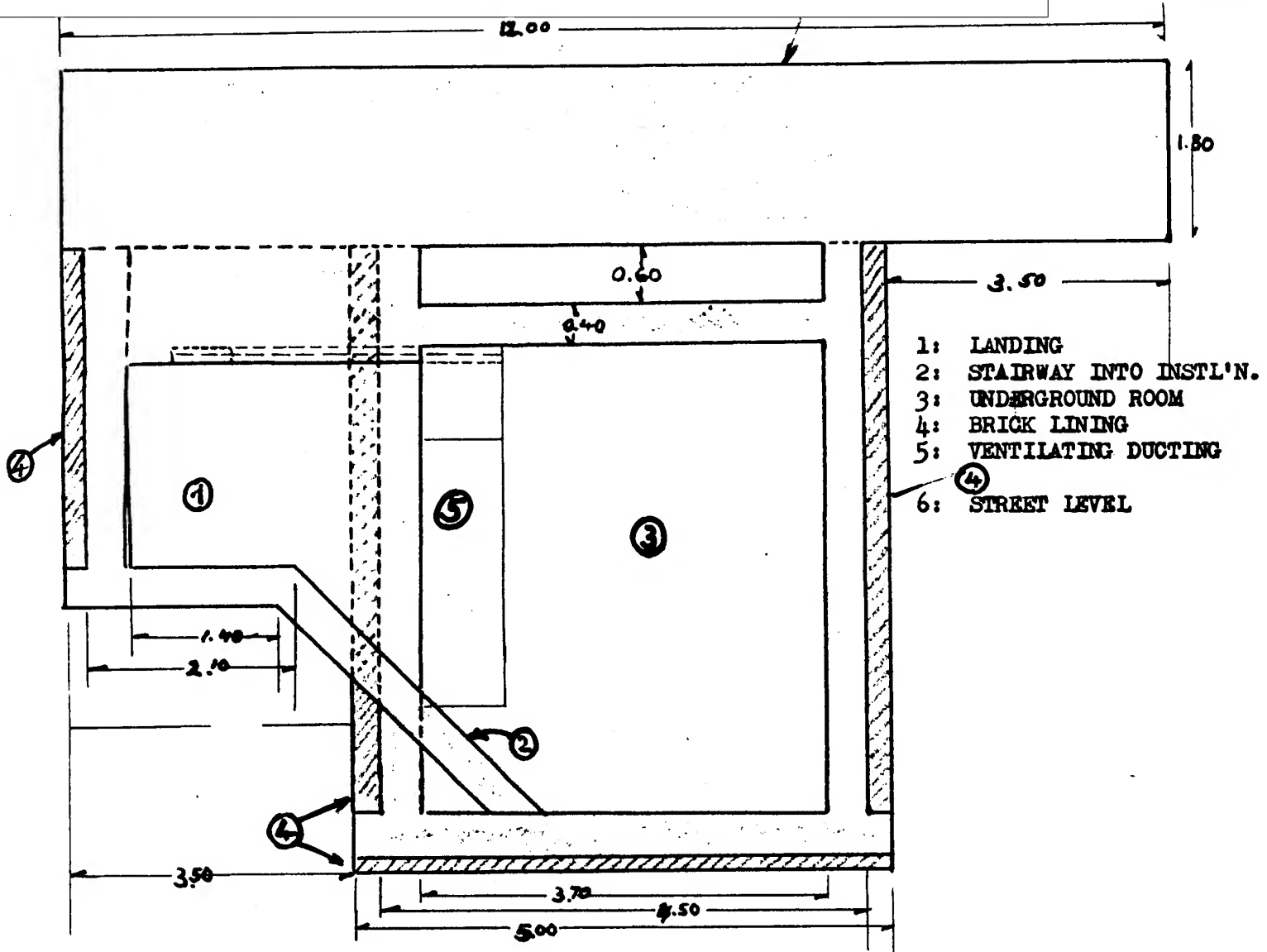
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